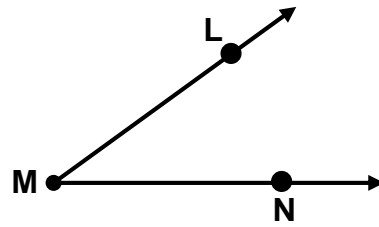


**1.5 ANGLES**

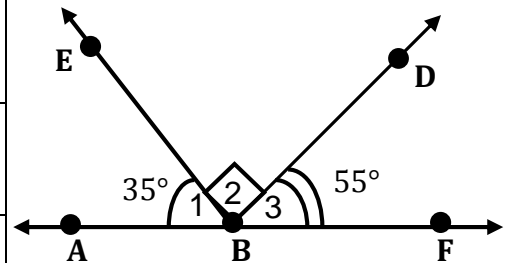
Name each of the following.

1. The angle on the right: _____
2. The sides of the angle: _____
3. The vertex of the angle: _____



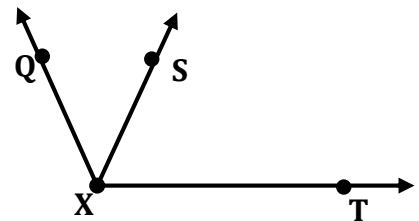
Refer to the figure below to answer each question.

4. Name $\angle 1$ : _____
5. Name $\angle 2$ : _____
6. Name $\angle 3$ : _____
7. Classify $\angle 1$ : _____
8. Classify $\angle 2$ : _____
9. Classify $\angle 3$ : _____
10. Classify $\angle ABD$ : _____
11. Classify $\angle ABF$ : _____



Use the Angle Addition Postulate to find the value of 'x' and the measure of the angle indicated for each of the following problems.

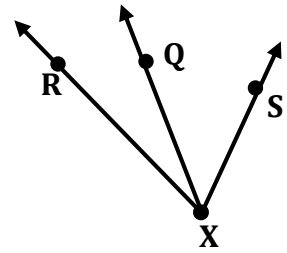
12.  $m\angle SXT = (4x + 1)^\circ$ ,  $m\angle QXS = (2x - 2)^\circ$ ,  
and  $m\angle QXT = 125^\circ$ . Find the value of 'x' and  $m\angle QXS$ .



$x =$  \_\_\_\_\_

$m\angle QXS =$  \_\_\_\_\_

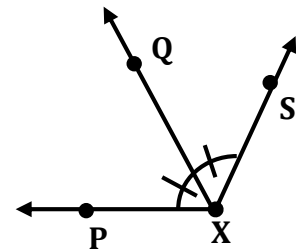
13.  $m\angle RXQ = (x + 15)^\circ$ ,  $m\angle RXS = (5x - 7)^\circ$ ,  
and  $m\angle QXS = (3x + 5)^\circ$ . Find the value of 'x' and  $m\angle RXS$ .



$x =$  \_\_\_\_\_

$m\angle RXS =$  \_\_\_\_\_

14.  $m\angle PXQ = (8x - 3)^\circ$ ,  $m\angle PXS = (10x + 30)^\circ$ .  
Find the value of 'x' and  $m\angle QXS$ .

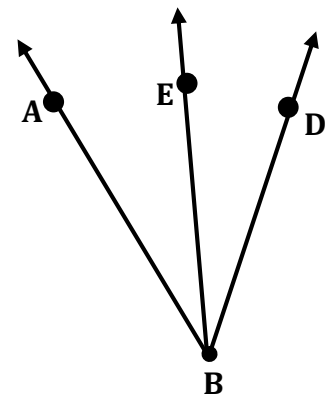


$x =$  \_\_\_\_\_

$m\angle QXS =$  \_\_\_\_\_

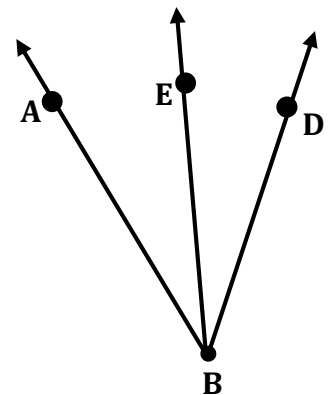
Given that  $\overrightarrow{BE}$  bisects  $\angle ABD$  below, find each of the following.

15. If  $m\angle ABE = (6x + 2)^\circ$  and  $m\angle DBE = (8x - 14)^\circ$ , find  $m\angle ABE$ .



$m\angle ABE =$  \_\_\_\_\_

16. If  $m\angle ABD = (22n - 11)^\circ$  and  $m\angle ABE = (12n - 8)^\circ$ , find  $m\angle EBD$ .



$m\angle EBD =$  \_\_\_\_\_

## REVIEW

Answer each of the following review questions.

17. Find the midpoint of 5 and  $-4$ .

$$M = \underline{\hspace{2cm}}$$

18. G is between F and H. If  $GH = 6$  and  $FG = 8x + 2$ , and  $FH = 16$ , find FG.

$$FG = \underline{\hspace{2cm}}$$

19. What is the distance between 10 and  $-6$ ?

$$d = \underline{\hspace{2cm}}$$